

## Abstract

The present inventors have carried out intensive screening of a new type compound which inhibits the  $P2X_{2/3,3}$  receptor and found as a result that minodronic acid as a bisphosphonate having bone resorption inhibitory action shows excellent  $P2X_{2/3,3}$  receptor inhibitory action and can be used as a preventive or therapeutic agent for various pains, thus accomplishing the invention. That is, the invention relates to a  $P2X_{2/3,3}$  receptor inhibitor, particularly an analgesic, which comprises minodronic acid or a salt thereof as the active ingredient.

Since the " $P2X_{2/3}$  and/or  $P2X_3$  receptor inhibitor" of the invention inhibits the function of  $P2X_{2/3,3}$  receptor known as a molecule which is concerned in various pains consisting of nociceptive pain, inflammatory pain and neurogenic pain, it is useful for the prevention or treatment of various pains in which the  $P2X_{2/3,3}$  receptor is concerned in the pain transduction.